

## SUSPENSION CONTROL SYSTEM AND RELATED DAMPER WITH INTEGRATED LOCAL CONTROLLER AND SENSORS

### ABSTRACT OF THE DISCLOSURE

A suspension control system includes a plurality of damper assemblies,  
5 each damper assembly including an integrated velocity sensor and an integrated  
local controller with a drive unit connected to a damper coil of the damper  
assembly. A central controller may be connected for communication with the  
integrated local controller of each damper assembly. The local controller of  
each damper assembly normally controls the damper assembly independently of  
10 the central controller or other damper assemblies for carrying out at least one  
control function of the damper assembly. When provided, the central controller  
communicates with the local controller of each damper assembly for overriding  
local control functions. A related self-contained piston damper unit is also  
provided.